

ABSTRACT OF THE DISCLOSURE

An electrophotographic image forming apparatus uses a halftone spot consisting of multiple dot images formed in pixel areas so as to represent a gray scale and to reproduce an image.

- 5 It has a halftone processor for generating image reproduction data for each pixel by referring to a transformation table wherein gray level data for the image and correlated image reproduction data are stored. The transformation table includes first look-up tables that each store gray level data and correlated
- 10 first image reproduction data, including size data for virtual dots, each of which corresponds to one of the dot images, second look-up tables that each store gray level data and correlated second image reproduction data, including size data for virtual dots, each of which corresponds to one of the dot images, and
- 15 a pattern matrix, elements of which are correlated with multiple pixels in a predetermined area of an image and each indicate one of the first look-up tables and one of the second look-up tables that are to be referred to.